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PTO/SB/05 (03-01)  
Approved for use through 10/31/2002 OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

JC682 U.S. PTO  
09/03/01  
04/13/01

## UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	
First Inventor	Nathaniel J. Fisch
Title	Segmented Electrode Hall Thruster...
Express Mail Label No.	EK901084284US

### APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 16]
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [ Total Sheets 4 ]
5. Oath or Declaration [ Total Pages   ]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 18 completed)*
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

### ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of *(when there is an assignee)*  Attorney
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ / \_\_\_\_\_

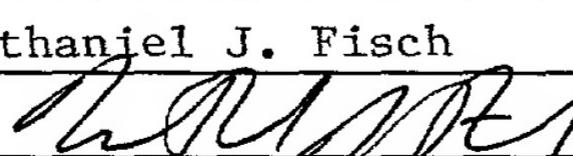
Prior application information

Examiner \_\_\_\_\_

Group Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

### 19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label	<small>(Insert Customer No. or Attach bar code label here)</small>		<input type="checkbox"/> or <input checked="" type="checkbox"/> Correspondence address below
Name	Nathaniel J. Fisch		
Address	105 Fitzrandolph Road		
City	Princeton	State	New Jersey
Country	USA	Telephone	609-9245384
		Zip Code	08540
Name (Print/Type)	Nathaniel J. Fisch		Registration No. (Attorney/Agent)
Signature			Date 4/11/01

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$355.00)

## Complete if Known

Application Number	
Filing Date	
First Named Inventor	Nathaniel J. Fisch
Examiner Name	
Group Art Unit	
Attorney Docket No.	

## METHOD OF PAYMENT

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number
- Deposit Account Name
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- Applicant claims small entity status. See 37 CFR 1.27

2.  Payment Enclosed:

Check  Credit card  Money Order  Other

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
105	130	205	65 Surcharge - late filing fee or oath	<input type="text"/>
127	50	227	25 Surcharge - late provisional filing fee or cover sheet	<input type="text"/>
139	130	139	130 Non-English specification	<input type="text"/>
147	2,520	147	2,520 For filing a request for ex parte reexamination	<input type="text"/>
112	920*	112	920* Requesting publication of SIR prior to Examiner action	<input type="text"/>
113	1,840*	113	1,840* Requesting publication of SIR after Examiner action	<input type="text"/>
115	110	215	55 Extension for reply within first month	<input type="text"/>
116	390	216	195 Extension for reply within second month	<input type="text"/>
117	890	217	445 Extension for reply within third month	<input type="text"/>
118	1,390	218	695 Extension for reply within fourth month	<input type="text"/>
128	1,890	228	945 Extension for reply within fifth month	<input type="text"/>
119	310	219	155 Notice of Appeal	<input type="text"/>
120	310	220	155 Filing a brief in support of an appeal	<input type="text"/>
121	270	221	135 Request for oral hearing	<input type="text"/>
138	1,510	138	1,510 Petition to institute a public use proceeding	<input type="text"/>
140	110	240	55 Petition to revive - unavoidable	<input type="text"/>
141	1,240	241	620 Petition to revive - unintentional	<input type="text"/>
142	1,240	242	620 Utility issue fee (or reissue)	<input type="text"/>
143	440	243	220 Design issue fee	<input type="text"/>
144	600	244	300 Plant issue fee	<input type="text"/>
122	130	122	130 Petitions to the Commissioner	<input type="text"/>
123	50	123	50 Processing fee under 37 CFR 1.17(q)	<input type="text"/>
126	180	126	180 Submission of Information Disclosure Stmt	<input type="text"/>
581	40	581	40 Recording each patent assignment per property (times number of properties)	<input type="text"/>
146	710	246	355 Filing a submission after final rejection (37 CFR § 1.129(a))	<input type="text"/>
149	710	249	355 For each additional invention to be examined (37 CFR § 1.129(b))	<input type="text"/>
179	710	279	355 Request for Continued Examination (RCE)	<input type="text"/>
169	900	169	900 Request for expedited examination of a design application	<input type="text"/>
Other fee (specify) _____				

SUBTOTAL (1) (\$355.00)

## 2. EXTRA CLAIM FEES

Total Claims	<input type="text"/>	Extra Claims	<input type="text"/>	Fee from below	<input type="text"/>	Fee Paid	<input type="text"/>
Independent Claims	<input type="text"/>	-20** =	<input type="text"/>	X	<input type="text"/>	=	<input type="text"/>
Multiple Dependent	<input type="text"/>	- 3** =	<input type="text"/>	X	<input type="text"/>	=	<input type="text"/>

## Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description		
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

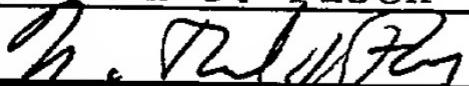
SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater, For Reissues, see above

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

Name (Print/Type)	Nathaniel J. Fisch	Registration No. (Attorney/Agent)		Telephone	609-924-5384
Signature				Date	4/12/01

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

Date: April 12, 2001

Re: Segmented Electrode Hall Thruster with Reduced Plume  
Nathaniel J. Fisch and Yevgeny Raitses

Sir:

Enclosed for filing in the United States Patent and Trademark Office is the following:

Utility Patent Application Transmittal  
Fee transmittal form and check No. 5344 in the amount of \$355.00.  
Specifications - 16 pages  
Drawings - 4  
Declaration for utility or design patent application  
Postcard receipt

Respectfully submitted,



Nathaniel J. Fisch  
105 Fitzrandolph Road  
Princeton, NJ 08540  
Tel: 609-924-5384  
Fax: 609-243-2662

I hereby certify that this correspondence is being deposited with the United States Postal Service, postage prepaid, as "Express Mail Post Office to Addressee," Mailing label No. EK901084284US to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on April 13, 2001.

By:   
Nathaniel J. Fisch